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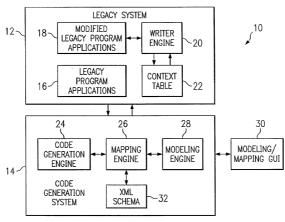
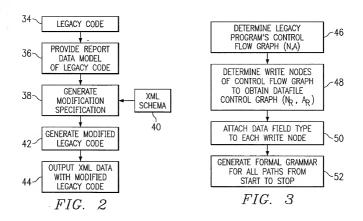


FIG. 1



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Date 01/25/2000

American Telephone Company

Monthly Statement for Account Number: 1111111111 COMPANY: EDS

PHONE NUMBER: (214) 999-1212

PERSON: Suzie Q

Sample-Data

Date	Time	Rate	Number	City and S	tate	Duration	Cost
12/01/1999	07:15A	В	210-404-6690	San Antoni	TX	00:12.2	\$1.22
12/02/1999	01:00A	Α	210-404-6690	San Antoni	TX	00:01.0	\$.05
12/02/1999	17:45P	D	919-416-1212	Kill Devil	NC	00:00.3	\$.06
12/03/1999	15:01P	С	210-404-6690	San Antoni	TX	00:02.0	\$.30
12/03/1999	20:23P	D	919-462-1212	Kill Devil	NC	03:02.3	\$36.46
12/04/1999	06:06A	В	615-655-1122	Nashville	TN	00:00.5	\$.05
12/07/1999	04:00A	Α	210-404-6690	San Antoni	TX	01:00.0	\$3.00
12/07/1999	15:05P	C	615-655-1122	Nashville	TN	00:40.5	\$6.07
12/07/1999	15:45P	С	205-555-1234	Dothan	AL	00:04.3	\$.64
12/11/1999	02:13A	Ā	615-655-1122	Nashville	TN	00:30.0	\$1.50
12/11/1999	08:08A	В	210-404-6690	San Antoni	TX	02:20.5	\$14.05
12/13/1999	08:00A	В	210-404-6690	San Antoni	TX	01:50.0	\$11.00
12/21/1999	00:26A	Ā	210-404-6690	San Antoni	TX	00:31.3	\$1.56
12/21/1999	04:12A	Ä	919-416-1212	Kill Devil	NC	00:32.0	\$1.60
12/21/1999	18:23P	Ď	615-655-1122	Nashville	TN	00:23.3	\$4.67
12/21/1999	19:01P	Ď	210-404-6690	San Antoni		03:02.4	\$36.48
12/22/1999	08:04A	B	205-555-1234	Dothan	AL	00:43.2	\$4.32
12/27/1999	12:01A	Č	205-555-1234	Dothan	AL	00:13.6	\$2.04
12/27/1999	21:12P	Ď	205-555-1234	Dothan	AL	01:03.0	\$12.60
TOTAL CALLS:	19			TOTAL	TIME:	16:12:49	\$137.67

FIG. 4

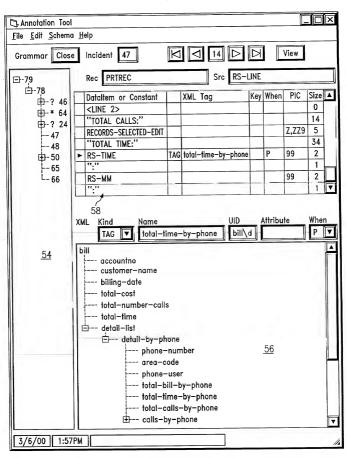
```
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<bil>
  <account>1111111111</account>
  <customer-name>EDS</customer-name>
  <calling-date>1/billing-date26/2000></>
  <total-bill-by-phone>69.66</total-bill-by-phone>
  <total-time-by-phone>515.6</total-time-by-phone>
  <total-calls>34</total-calls>
  <detail-list>
     <detail-by-phone>
        <phone-number>999-1212</phone-number>
         <area-code>214</area-code>
         <phone-user>Suzie Q Sample-Data</phone-user>
         <calls-by-phone>
           <call>
              <date>12-01-1999</date>
              <time>07.15A/time>
              <code>B</code>
              <phone-number>404-6690</phone-number>
              <area-code>210</area-code>
              <called-city>San Antonio</called-city>
              <called-state>TX</called-state>
              <duration>12.2</duration>
              <charge>1.22</charge>
           </call>
           <call>
              <date>12-01-1999</date>
              <time>01.00A</time>
              <code>A</code>
              <phone-number>404-6690</phone-number>
              <area-code>210</area-code>
              <called-city>San Antonio</called-city>
              <called-state>TX</called-state>
              <duration>01.0</duration>
              <charge>0.05</charge>
           </call>
           <call>
              <date>12-01-1999</date>
              <time>17.45P</time>
              <code>D</code>
               <phone-number>416-1212</phone-number>
              <area-code>919</area-code>
              <called-city>Kill Devil</called-city>
               <called-state>NC</called-state>
               <duration>0.3</duration>
               <charge>0.06</charge>
            </call>
         </calls-by-phone>
                                        FIG. 5
      </detail-by-phone>
   </detail-list>
```

</Schema>

```
<Schema xmlns="urn: schemas-microsoft-com:xml-data"
  xmlns:dt="urn:schemas-microsoft-com:datatypes">
 <ElementType name="accountno" content="textonly"/>
 <ElementType name="customer-name" content="textonly"/>
 <ElementType name="billing-date" content="textonly"/>
<FlementType name="total-cost" content="textonly"/>
 <ElementType name="total-cost" content="textonly"
 <ElementType name="total-number-calls" content="textonly"/>
 <ElementType name="total-time" content="textonly"/>
 <ElementType name="phone-number" content="textonly"/>
 <ElementType name="phone-user" content="textonly"/>
 <ElementType name="date" content="textonly"/>
 <ElementType name="charge" content="textonly"/>
 <ElementType name="called-city" content="textonly"/>
 <ElementType name="called-state" content="textonly"/>
 <ElementType name="duration" content="textonly"/>
 <ElementType name="code" content="textonly"/>
 <ElementType name="area-code" content="textonly"/>
 <ElementType name="time" content="textonly"/>
 <ElementType name="call">
   <element type="area-code" max0ccurs="1" />
   <element type="phone-number" max0ccurs="1" />
   <element type="code" max0ccurs="1" />
   <element type="date" maxOccurs="1"
<element type="time" maxOccurs="1"</pre>
   <element type="duration" max0ccurs="1"</pre>
   <element type="charge" max0ccurs="1"
   <element type="called-city" maxOccurs="1"
   <element type="called-state" max0ccurs="1" />
 </ElementType>
 <ElementType name="total-bill-by-phone" content="textonly"/>
 <ElementType name="total-time-by-phone" content="textonly"/>
 <ElementType name="total-calls-by-phone" content="textonly"/>
 <ElementType name="calls-by-phone">
   <ElementType name="call"/>
 </ElementType>
 <ElementType name="detail-by-phone">
   <element type="phone-number"/>
<element type="area-code"/>
   <element type="phone-user"/>
   <element type="total-bill-by-phone"/>
   <element type="total-time-by-phone"/>
   <element type="total-calls-by-phone"/>
   <element type="calls-by-phone"/>
 </ElementType>
  <ElementType name="detail-list">
   <element type="detail-by-phone"/>
  </ElementType>
  <ElementType name="bill">
    <element type="accountno"/>
    <element type="customer-name"/>
   <element type="billing-date"/>
<element type="total-cost"/>
    <element type="total-number-calls"/>
    <element type="total-time"/>
    <element type="detail-list"/>
                                      FIG 5A
  </ElementType>
```

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TOMOTO, ANADAGO

FIG. 6

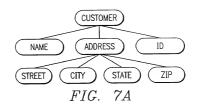
-	Source	File Viewer	×
ſ	D:\xml-	annotation\XML Annotator\Sample Data\cobol\phonebill.cbl	е
2		Find Text1 520	
	57100 57200 57300 57400 57500 57600 57700 57800 58000 58100 58200 58400 58500 58500 58500 58600 58700 58900 59900 59100	* SORT * *BUILD—SORT—TEMP—FILE. * *BUILD TEMPFILE HERE. * * ** TERMINATION * ** ** TERMINATION * ** ** ** ** ** ** ** ** **	1
	59500 59600 59700	* /***********************************	▼

FIG. 6A

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Inventor: Ballantyne, et al. Express: EL739956652US

```
<Schema xmlns="urn:schemas-microsoft-com:xml-data"
    xmlns:dt="urn:schemas-microsoft-com:datatypes">
 <a href="current" content="boolean"/>
 <ElementType name='Name' content="textonly"/>
 <ElementType name="ID" content="textonly"/>
 <ElementType name="Street" content="textonly"/>
 <ElementType name="City" content="textonly"/>
<ElementType name="State" content="textonly"/>
 <ElementType name="ZIP" content="textonly"/>
 <ElementType name="Address">
    <attribute type="Current"/>
    <Element type="Street"/>
    <Element type="City"/>
    <Element type="State"/>
    <Element type="ZIP"/>
 </ElementType>
 <ElementType name="Customer">
    <Element type="Name"/>
    <Element type="Address"/>
     <Element type="ID"/>
  </ElementType>
 </Schema>
               FIG. 7
```



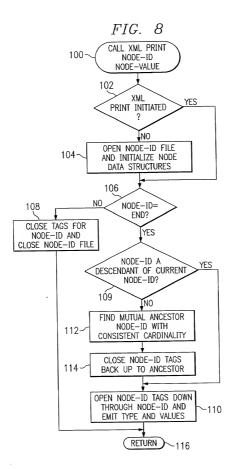
ID	LABEL.	END LABEL	DEPTH	PARENT	CARDINALITY
1	<customer></customer>		1	0	n
2	<name></name>		2	1	1
3	<address></address>		2	1	1
4	<id></id>		2	1	1
5	<street></street>		3	3	1
6	<city></city>		3	3	1
7	<state></state>		3	3	1
8	<zip></zip>		3	3	1

METHOD AND SYSTEM FOR REPORTING XML DATA BASED ON PRECOMPUTED CONTEXT AND A DOCUMENT OBJECT MODEL

Inventor: Ballantyne, et al. Express: EL739956652US

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METHOD AND SYSTEM FOR REPORTING XML DATA BASED ON PRECOMPUTED CONTEXT AND A DOCUMENT OBJECT MODEL

Inventor: Ballantyne, et al. Express: EL739956652US

